Governor MD, MPH

xecutive Director and Chief Medical Officer

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 Located in Glendale, Colorado

Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090

http://www.cdphe.state.co.us



February 11, 2011

(7)(C), (D) Environmental Health and Safety Manager

Abound Solar 9586 I-25 East Frontage Road Longmont, CO 80504

RE:

Inspection Report for the February 3, 2011 Compliance Inspection EPA ID Number COR000220137

On February 3, 2011 (b) (7)(C), (b) U.S. EPA and I conducted a compliance evaluation inspection at Abound Solar. This routine inspection was conducted to evaluate your compliance with the Colorado Hazardous Waste Regulations (6 CCR 1007-3). Based upon our observations at the time of that inspection it appears that you are operating in compliance with the requirements for a large quantity generator of hazardous waste.

The Division is hereby closing the referenced Compliance Advisory and does not intend to take action on this matter.

Please feel free to contact me at (b) (7)(C), (b) if you have any questions regarding this matter.



Hazardous Waste Compliance Unit



ABOUND SOLAR

GENERAL INFORMATION

Facility: Abound Solar

Facility Address: 9586 I-25 East Frontage Road, Longmont, Weld County, CO 80504

EPA ID Number: COR000220137

Notification: Large Quantity Generator

Date: February 3, 2011

Generator Status: On the date of this inspection the facility was both notified and operating as a large quantity

generator of hazardous waste.

PREARRANGED: Yes **TIME IN:** 8:45 am **TIME OUT:** 1:30 pm FACILITY CONTACT & TITLE: (D) (7)(C), (b) Environmental Health and Safety Engineer

PARTICIPANTS:

- Abound Solar
 - (b) (7)(C), (b) Environmental Health and Safety Engineer
 - Environmental Health and Safety Specialist, Abound Solar
- Colorado Department of Public Health and Environment
 - o (b) (7)(c), (b) (6) Compliance/Enforcement Officer
- U.S. Environmental Protection Agency
 - o (b) (7)(C), (b) (6), Environmental Protection Specialist

FACILITY PHONE NUMBER: (303) 682-6118

PRODUCT OR SERVICE: This facility manufactures solar panels.

FACILITY START DATE:

The facility started in 2007 in Fort Collins, Colorado. It has been at this Longmont location under the name AVA Solar since 2008. The facility changed its name to Abound Solar in April 2009.

NUMBER OF EMPLOYEES:

There are 200 employees at this facility working four shifts. The facility operates four shifts, 24 hours a day, seven days a week.



Results of Previous Inspections

The first inspection at this facility was conducted on March 2, 2010. At that time a Compliance Advisory was issued for deficiencies with the Colorado Hazardous Waste Regulations. The facility corrected the issues and responded with a written response on March 25, 2010. Based upon a review of that response, the Division closed the Compliance Advisory and did not take further action on the matter.

FACILITY INSPECTION

Following the opening conference, (b) (7)(c), (b) (6) and (b) (7)(c) accompanied the inspectors on a tour of the facility and associated waste generation accumulation and storage locations. The facility has established three 90-day storage areas and several satellites accumulation areas. One satellite accumulation area was not inspected. The area was an accumulation area called "Longmont 1" located on the east wall of the regulated areas. Because all other satellites were found to be in compliance with the satellite container requirements, the inspectors determined it was likely this area was also in compliance.

After the tour the following documents were reviewed: manifests and land disposal restriction notifications since the date of the last inspection (March 2010); weekly inspection logs for satellite containers; training records; hazardous waste job descriptions; and the facility's contingency plan.

Following the site tour a closeout meeting was conducted with (b) (7)(C), (b) (6) and (b) (7)(C). The closeout meeting consisted of a review of the inspection results and the inspectors providing written guidance materials to the facility representatives. The inspectors concluded their inspection at approximately 11:15 p.m.

Colorado Compliance Evaluation Inspection/EPA Oversight Inspection

Section 3006(b) of the Resource Conservation and Recovery Act (RCRA) of 1976 (as amended), provides that any State may make application to the U.S. Environmental Protection Agency (EPA) to administer and enforce the hazardous waste program. Further, EPA shall authorize a State to carry out its program in lieu of the Federal program if it can demonstrate that its program is equivalent (or more stringent) and consistent with the Federal program and it provides adequate enforcement of compliance with the requirements.

Colorado passed state laws governing hazardous waste in 1981 and has since adopted regulations that cover hazardous waste management in the state. EPA authorized the Colorado Department of Public and Environment (the Department) to implement the federal hazardous waste program in 1984.



The 1988 RCRA Implementation Plan states that EPA must assess the States' performance and progress in implementing quality RCRA programs. Oversight inspections ensure the quality of Colorado inspections and can include joint inspections and/or EPA inspections. The compliance evaluation inspection at Abound Solar on February 3, 2011 was conducted as a joint state compliance evaluation inspection and an EPA oversight inspection.

Manufacturing Processes

The facility, which has operated from this location since 2008, provides a continuous, automated manufacturing process for solar panels using glass coating with a cadmium telluride thin film. They utilize an automated, dry deposition process. However, due to the proprietary nature of the technologies used at this facility, processes will not be discussed in this report.

Process Changes

In July 2010 the facility installed a wastewater treatment unit, However, due to pH problems and trouble with the monitoring system, the system was taken off-line in September 2010. The monitoring system was upgraded in December 2010. On the day of the inspection, they were in the process of installing a new pH monitoring system. Therefore, the facility was not operating a waste water treatment unit on the day of the inspection.

Hazardous Waste Streams

The following hazardous waste streams and associated waste codes were identified during the inspection of this facility:

- 1. Broken glass D006
- 2. Personal Protective Equipment (PPE) D006
- 3. Rinse Waters D006
 - Facility personnel stated that the waste water does not exhibit the toxicity characteristic for cadmium using the toxicity characteristic leaching procedure (TCLP) method 1311. However, because their waste water treatment unit is not in service yet, and the rinse water must have the metals precipitated out prior to disposal in the publicly owned treatment works (POTW), they have chosen to dispose of the rinse water as hazardous waste at this time.
- 4. Rags D001
 - Facility personnel stated that, although the rags are not hazardous waste (they are not capable of spontaneous ignition, and if ignited they would not burn vigorously and persistently) they are conservatively being managed and disposed of as hazardous waste, nonetheless.

All hazardous waste is disposed of off-site at Clean Harbors in Deer Trail, Colorado or Kimball, NE, which are permitted Treatment, Storage and Disposal Facilities (TSDF).



Large Quantity Generator

Publicly Owned Treatment Works (POTW)

The POTW is Saint Vrain Sanitation District. Currently the facility is shipping off all waste water and there is no discharge to the sanitation district.

Air Pollutant Emission Notice

The Construction Permit Unit of the Air Pollution Prevention Division at the Department issues construction permits, also known as air pollutant emissions notices (APENs) to commercial and industrial air pollution sources in Colorado in order to ensure compliance with air quality regulations. The regulations are designed to protect the public's health and welfare and to maintain ambient air quality standards. Abound Solar has obtained an APEN number, notifying as a minor source of air pollution.

Emergency Response Coordinator

The Emergency Response Coordinator for the facility is (7)(C), (b) with (b) (7)(C), (b) (acting as an alternate. Additionally, the facility has a number of individuals established who serve on their internal emergency response team.

Hazardous Waste Accumulation Areas (SAA)

Accompanied by (b) (7)(c), (b) (6) and (b) (7) the inspectors proceeded to inspect the facility.

Satellite Accumulation Areas/90 Day Areas

b) (7)(C), (b) (6) and (b) (7) accompanied the inspectors to established satellite accumulation areas as follows:

| Saitellite Area ID Number | Location Description | Waside Signeerin Designipidion | Closed/stror real/ |
|-------------------------------|---------------------------------------|-----------------------------------|---|
| Accumulation area, Longmont 1 | East wall of Regulated Area (R.A.) | 1 Contaminated wood | The SAA in this location were not reviewed during this inspection |
| | | 1 Broken Glass | |
| • | | 1 PPE | · |
| | | 1 Wash Water | |
| | | 1 Cadmium Compounds | |
| | | 1 Copper Chloride | |
| | | 1 IPA | |
| Accumulation area, Longmont 2 | Mechanical Room | 1 Cadmium | In Compliance |
| | | Contaminated used oil | In Compliance |
| Accumulation area, Longmont 3 | Personal Decon Room 1 | 1 Cadmium Contaminated PPE | In Compliance |
| Accumulation area, Longmont 4 | Personal Decon Room 2 | 1 Cadmium Contaminated PPE | In Compliance |
| Accumulation area, Longmont 5 | Glass Polish | 1 Cadmium Contaminated Broken | In Compliance |
| | | Glass | · |
| | | 1 Cadmium Contaminated PPE | In Compliance |
| | | 1 Cadmium Contaminated Water | In Compliance |

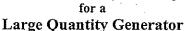


| Accumulation area, Longmont 6 | Equipment Decon Room (D1) | 1 Cadmium Contaminated Broken Glass | In Compliance |
|--------------------------------|-----------------------------|---|---|
| | | 1 Cadmium Contaminated PPE | In Compliance |
| Accumulation area, Longmont 7 | Equipment Decon Room (D2) | 1 Cadmium Contaminated Broken Glass | In Compliance |
| | | 1 Cadmium Contaminated PPE | In Compliance |
| Accumulation area, Longmont 8 | Dek Tak | 1 Cadmium Contaminated Broken Glass | In Compliance |
| | | 1 Cadmium Contaminated PPE | In Compliance |
| Accumulation area, Longmont 9 | P2 Scribe | 1 Cadmium Contaminated Broken Glass | In Compliance |
| | | 1 Cadmium Contaminated Filters Hazardous solid | In Compliance |
| Accumulation area, Longmont 10 | PVD/Sputter | 1 Cadmium Contaminated Broken Glass | In Compliance |
| | | 1 Flammable Wipes Hazardous solid | In Compliance |
| Accumulation area, Longmont 11 | Cell 10 | 1 Flammable Wipes Hazardous solid | In Compliance |
| Accumulation area, Longmont 12 | Cell 27 | 2 Flammable Wipes Hazardous solid | In Compliance |
| Accumulation area, Longmont 13 | Mail Room | Universal waste batteries | . In Compliance |
| 90HDaiy/ArrealID | Location | Wasie Stream | Closed/aironnear/ |
| Neim ber | Descripcion | Desempeter | निर्माणकार्थके//मुक्कानिक्कानरनीस्थाकात् |
| Accumulation area | Equipment Decon Room (D2) | 1 Cadmium Contaminated glass | In Compliance |
| Longmont 90 Day Room | | 1 Cadmium Contaminated PPE | In Compliance |
| Longmont 90 Day Area | Compactor dock 2 | Cadmium Contaminated PPE | In Compliance |
| Longmont 90 Day Area , | Longmont East Wall Shipping | 4 Cadmium Contaminated PPE 2 Cadmium Contaminated filters 1 Cadmium Contaminated Broken Glass | in Compliance In Compliance In Compliance |
| | | 2 Cadmium Compounds 1 Lab Pack Box | in Compliance In Compliance |
| | | 1 Flammable Wipes | In Compliance |
| - | | 1 Cadmium Contaminated water I Used Oil | In Compliance |
| | | i Usea Oii | In Compliance |

All SAA containers were closed; in good condition; labeled with the words "Hazardous Waste"; located at or near the point of generation; and inspected weekly.

It was brought to the attention of facility personnel that the aisle space in 90-day area #3 could be increased.

(b) (7)(C), (b) (6) and (b) (7)(C), stated that they would increase the aisle space immediately in order to insure that a drum dolly can more easily fit between the rows.





Used Oil:

• The facility had one 55-gallon drum of used oil stored in 90-day Accumulation Area #3 and one 55-gallon container of used oil used in the Mechanical Room. The containers were in good condition and properly marked or labeled with the words "Used Oil."

Universal Waste

- Aerosol Cans
 - o This facility does not generate aerosol cans.
- Florescent Bulbs
 - On the day of the inspection the facility there were no universal waste fluorescent bulbs on site. When generated, they are disposed through Clean Harbors.
- CRTs/Circuit Boards/Monitors
 - o No computer equipment or other related wastes have been generated at the facility to date.
- Pesticides
 - Weed control is contracted out to a professional, licensed, pesticide application company.
- Mercury-containing Devices
 - o This facility does not generate mercury-containing devices.
- Batteries
 - o Batteries are disposed through Clean Harbors

Fire Protection Equipment

The inspectors noticed fire extinguishers located throughout the plant. One random fire extinguisher in the front end glass handling area was reviewed during the inspection.

- The extinguisher was not blocked by equipment, coats or other objects that could interfere with access in an emergency.
- The pressure was at the recommended level. (The needle on the gauge was in the green zone.)
- The nozzle or other parts were not hindered in any way.
- The pin was intact.
- There were no dents, leaks, rust, chemical deposits or other signs of abuse/wear.
- The last service date was punched as February 2010.

Hazardous waste treatment:

The facility is performing treatment (compaction) of hazardous waste rags under a state RCRA permit (Permit By Rule). The following conditions were being met:

- The rags are compacted in a container.
- The rags are being compacted (treated) to reduce their volume.
- The facility complies with the accumulation containers requirements.
- The facility develops and maintains onsite a written waste analysis plan (WAP).

Wastewater treatment unit/discharge permit: Abound Solar plans to operate a wastewater treatment unit prior to discharge to the POTW. The unit is not yet functional.



DOCUMENT REVIEW

The following documents associated with the management of hazardous waste were reviewed at the time of this inspection:

- Training records for personnel involved with the management of hazardous waste. There were no issues identified in the review of this documentation.
- The most current version of the Abound Solar contingency plan. There were no issues identified in the review of this document.
- The 2009 Biennial Report. Since the report was reviewed in the March 2010 inspection, it was not reviewed during this inspection.
- Land Disposal Restriction (LDR) notification forms.
 - There were no issues identified for enforcement action.
- Hazardous waste manifests for March 2010 through present. There were no issues identified in the review of these documents.
- Waste Analysis Plan (WAP). The WAP for the compaction of rags under Permit by Rule was reviewed. There were no issues identified in the review of this document.

COVERAGE AREAS

General Requirements (262.10 - 262.12). No violations were observed during this inspection.

Manifest Requirements (262.20 - 262.23). No violations were observed during this inspection.

Land Disposal Restriction Requirements (262.7(a)(2)). No violations were observed during this inspection.

Pre-Transport Requirements (262.30 - 262.34). The following pre-transport requirements were evaluated during this inspection:

- On-Site accumulation time limit (262.34(a)). No violations were observed during this inspection.
- Marking accumulation containers with the words "Hazardous Waste" (262.34(a)(3)). No violations were observed during this inspection.
- <u>Marking accumulation containers with an accumulation start date (262.34(a)(2))</u>. No violations were observed during this inspection.

Colorado pepartment of Public Health and Environment

Hazardous Materials and Waste Management Division 4300 Cherry Creek Drive South, Mail Code: HMWMD-CP-B2, Denver, Co 80246-1530 (303) 692-3300

| Notic | ce of Inspection | |
|--|---|--|
| Facility Name ADOUND Solar, Inc | EPA I.D.# | Date / |
| Street | Inspection Arranged Prior to Inspection | 0/3/11 Hour In: |
| Gity County Zip | e (2) (X, YES () NO | 8:10 A.1 |
| Longmont Weld 805 | Consent () Warrant | Hour Out: |
| Facility Representatives (b) (7)(C), (b) (6) Titles | Telephone # (b) (7)(C), (b) (6) | Agency (X) State |
| Ett: | 5 Mar | () Oversight () Joint |
| CURRENT X LQG, SQG, Exempt, Other | LDFTSFTransporter,Non-Notifier,To Change Status; Facility must send Letter | Transfer facility or |
| Comments: | ro change status, Pacinty must send Letter | or Revised Notification. |
| A Compliance Eval conducted on 2/3 | | |
| conducted or an | The choose are | se space |
| is increased in the | 90-day area locat | ted at |
| is increased in the the Longmont East | Wall Shipping area | |
| | | |
| | | |
| | | |
| | | |
| . \ | | |
| No Violations | Wara observe | d |
| Assistance Delivered During Inspection (for internal use - | check ALL that apply): | |
| Compliance Assistance: Generator Handbook Field Assistance Other guidance documents Referral to another prog Change in generator status downward upward | Guidance/Referral | Current Waste Minimization Product Substitution Distillation of solvents on site Elementary Neutralization Other |
| Samples, Documents, Plans, and / or Photos Collected 1. | 3. | Oner |
| 2. | 4. | |
| State personnel will review the facts established by this inspectate Regulations will be made as a result of this review. The | ction. A final determination of your facility's come review may reveal additional violations. | pliance with |
| Receipt of this Notice of Inspection Form is Acknowledged (b) (7)(C), (b) (6) | Lead Inspecto (b) (7)(C), (b) (6) | |
| | Assisting Inspector(s) and Multimedia Participar | 140) (A) (Z) (A) |
| | (b) (7)(C), (b) (6) | (b) (7)(C), |
| | (b) (7)(C), (b) (6) | |
| Signature of Facility Representative | | - W.O. |

(b) (7)(C)

Governor

(b) (7)(C), (b) (6)

xecutive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090

http://www.cdphe.state.co.us



April 13, 2010

(b) (7)(C), (b) (6)

EHS SPECIALIST
ABOUND SOLAR INC
9586 I-25 E FRONTAGE RD
LONGMONT CO 80504

RE: Notification of Hazardous Waste Activity

ABOUND SOLAR INC - EPA ID #: COR000220137

This letter will serve to inform you that the Hazardous Materials & Waste Management Division, Colorado Department of Health and Environment has received correspondence notifying us of the changes to your company/facility as indicated below. This is an acknowledgement letter only; keep it for your files. The areas listed below have changed per your request..

- UPDATE FACILITY MAILING ADDRESS
- UPDATE FACILITY CONTACT TO: PETE GANISON
- UPDATE LEGAL OWNER INFORMATION
- > UPDATE FACILITIES WASTE CODES TO: D001, D006

Any change in location would require a new Notification of Hazardous Waste Activity (EPA Form 8700-12) to be filed, as EPA ID numbers are location specific. Failure to have an EPA ID number for a new location or use of the wrong EPA ID number in shipping hazardous wastes may result in Enforcement Action under the Colorado Hazardous Waste Act (Sections 25-15-308 through 310, C.R.S.). In accordance with Part 99 of the Regulations, this office must be notified in writing at the above address if any of the following changes occur: 1) mailing address; 2) name of facility; 3) generator status or other notified activity; 4) contact name or phone number; 5) ownership; or 6) site is closed.

Please be aware that the handling and management of hazardous waste, including the generation, transportation, treatment, storage, and disposal of hazardous waste, is regulated under the Colorado Hazardous Waste Regulations (6 CCR 1007-3) Part 260 through 268; Part 2, 99 and 100. A copy of the *Guide to Generator Requirements of the Colorado Hazardous Waste Regulations* and copy of the regulations (6 CCR 1007-3) is available online at http://www.cdphe.state.co.us/regulations/hazwaste/index.html.

If you have any questions, or need further information, please contact me at

t (b) (7)(C), (b) (6)

Sincerely.

(b) (7)(C), (b) (6)

mazargous waste Notification Coordinator

(b) (7)(C), (b) (6) Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado

Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090

http://www.cdphe.state.co.us



March 25, 2010

Abound Solar
9586 I-25 East Frontage Road
Longmont, CO 80504

RE:

Inspection Report for the March 2, 2010 Compliance Inspection EPA ID Number COR000220137

On March 2, 2010 I conducted a compliance evaluation inspection at Abound Solar. This routine inspection was conducted to evaluate your compliance with the Colorado Hazardous Waste Regulations (6 CCR 1007-3). Based upon our observations at the time of that inspection, a Compliance Advisory was issued.

I received your written response to the Compliance Advisory on March 25, 2010. Based upon my review of your response, the Division is hereby closing the referenced Compliance Advisory and does not intend to take further action on this matter.

Please feel free to contact me at $\binom{(b)}{6}$ $\binom{(7)(C)}{6}$ if you have any questions regarding this matter.



(b) (7)(C), Governor (b) (7)(C), (b) (6) Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Cotorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090 Colorado Department
of Public Health
and Environment

http://www.cdphe.state.co.us

March 4, 2010

(b) (7)(C), (b) (6) Environmental Health and Safety Engineer

Abound Solar 9586 I-25 East Frontage Road Longmont, CO 80504

Subject:

Inspection Report for the March 2, 2010, Compliance Inspection and

Complaint Inspection

EPA Identification Number COR000220137

Dear (b) (7)(C), (b)

On March 2, 2010, inspectors from the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the Division) conducted a hazardous waste compliance inspection and a complaint inspection at Abound Solar. Based upon observations made at the time of that inspection, a Compliance Advisory was issued for deficiencies with the Colorado Hazardous Waste Regulations. Please submit a written response to the Compliance Advisory no later than April 2, 2010.

For your information, I have attached a copy of the inspection report for the referenced compliance inspection. Please contact me at (b) (6) (b) (7)(C) if you have any questions regarding this matter.

Sincerely b) (7)(C), (b) (6)

(7)(C), (b) (6) Compliance/Enforcement Officer

Hazardous Waste Compliance Unit

Copies to:

(b) (7)(C), (b) (6) EPA



ABOUND SOLAR



GENERAL INFORMATION

Facility: Abound Solar

Facility Address: 9586 I-25 East Frontage Road, Longmont, Weld County, CO 80504

EPA ID Number: COR000220137

Notification: Large Quantity Generator

Compliance Evaluation Inspection/Complaint Inspection March 2, 2010



Large Quantity Generator

PREARRANGED: Yes **TIME IN:** 8:45 am **TIME OUT:** 1:30 pm FACILITY CONTACT & TITLE Environmental Health and Safety Engineer **PARTICIPANTS:** (b) (7)(C), (b) (6) Compliance Inspector, Colorado Department of Public Health and Environment b) (7)(C). (b) (6), Unit Leader/ Enforcement Unit, Colorado Department of Public Health and Environment o) (7)(C), (b) (6) Environmental Health and Safety Engineer, Abound Solar Environmental Health and Safety Specialist, Abound Solar FACILITY PHONE NUMBER: (303) 682-6118 **PRODUCT OR SERVICE:** This facility manufactures solar panels. **FACILITY START DATE:** NUMBER OF EMPLOYEES: The facility started in 2007 in Fort Collins, Colorado. There are 150 employees at this facility working four It has been at this Longmont location under the name shifts. The facility operates 24 hours a day, seven AVA Solar since 2008. The facility changed its name days a week. to Abound Solar in April 2009.

Results of Previous Inspections

This is the first inspection at this facility.

FACILITY INSPECTION

Inspection Access
On the morning of March 2, 2010 (b) (7)(C), (b) (6) and (b) (7)(C), (b) (6) from the Colorado Department of Public Health and Environment (the Department), Hazardous waterials and Waste Management Division conducted an announced compliance evaluation inspection at Abound Solar to determine compliance with the

Colorado Hazardous Waste Regulations (6 CCR 1007-3).

After scheduling, but prior to the inspection, the Department received an anonymous complaint alleging cadmium-contaminated solar panels may have been shipped to customers due to a filter problem. The inspectors investigated this allegation at the same time as the routine compliance evaluation inspection.

Upon arrival at the facility, the inspectors were introduced to (b) (7)(C), (b) (6) Environmental Health and Safety Engineer and (b) (6), (b) (7)(C) Environmental Health and Safety Specialist from Abound Solar. The inspectors were escorted to a conference room where the inspectors presented their credentials and held an opening conference.



Facility

According to (7)(C), (b) Abound Solar began in 2007 as the brain-child of scientists at Colorado State University in Fort Collins, CO. Until April 2009 Abound Solar was known as AVA Solar. The facility, which has operated from this location since 2008, provides a continuous, automated manufacturing process for solar panels using glass coating with a cadmium telluride thin film.

Manufacturing Processes

Abound Solar manufactures thin-film modules utilizing an automated, dry deposition process. Due to the proprietary nature of the technologies used at this facility, processes will not be discussed in this report. Additionally, no pictures were taken at the facility during this inspection.

Hazardous Waste Streams

The following hazardous waste streams and associated waste codes were identified during the inspection of this facility:

- 1. Broken glass D006
- 2. Personal Protective Equipment (PPE) D006
- 3. Rinse Waters D006
 - Facility personnel stated that the waste water does not exhibit the toxicity characteristic for cadmium using the toxicity characteristic leaching procedure (TCLP) method 1311. However, because they have not yet installed their planned wastewater treatment unit, and the rinse water must have the metals precipitated out prior to disposal in the publicly owned treatment works (POTW), they have chosen to dispose of the rinse water as hazardous waste at this time.
- 4. Rags D001
 - Facility personnel stated that, although the rags are not hazardous waste (they are not capable of spontaneous ignition, and if ignited they would not burn vigorously and persistently) they are conservatively being managed and disposed of as hazardous waste, nonetheless.

All hazardous waste is disposed of off-site at Clean Harbors in Deer Trail, Colorado, which is a permitted Treatment, Storage and Disposal Facility (TSDF).

Complaint Investigation

As previously stated, after scheduling the inspection, but prior to arrival, the Department received an anonymous complaint alleging cadmium-contaminated solar panels may have been shipped to customers due to a filter problem. Facility personnel stated that on January 1, 2010 the housing unit for a rinse water filter caught on fire causing the filter to drop out of the housing. However, (5) (7)(C), (5) stated that the line was immediately and automatically shut down preventing units from progressing through the system until the filter and its



Large Quantity Generator

housing were replaced. The incident was minor and did not require the facility contingency plan to be implemented. The inspectors did not find evidence to substantiate the allegations of the complainant.

Publicly Owned Treatment Works (POTW)

The POTW is Saint Vrain Sanitation District. Wastewater from rinsing operations are planned to be discharged to the POTW as soon as their wastewater treatment unit is installed.

Air Pollutant Emission Notice

The Construction Permit Unit of the Air Pollution Prevention Division at the Department issues construction permits, also known as air pollutant emissions notices(APENs) to commercial and industrial air pollution sources in Colorado in order to ensure compliance with air quality regulations. The regulations are designed to protect the public's health and welfare and to maintain ambient air quality standards. Abound Solar has obtained an APEN number, notifying as a minor source of air pollution.

Emergency Response Coordinator

The Emergency Response Coordinator for the facility i. (b) (7)(C), (b) (6) with (c), (b) (6) acting as an alternate.

Current generator status:

This facility operates as a large quantity generator of hazardous waste.

Hazardous Waste Accumulation Areas (SAA)

Accompanied by (b) (7)(C), (b) (6) and (b) (7)(C), the inspectors proceeded to inspect the entire facility.

Satellite Accumulation Areas

(b) (7)(C), (b) (6) and (b) (7) accompanied the inspectors to established satellite accumulation areas as follows:

- The east wall of the Regulated Room
- Personal Decon Room #1
- Personal Decon Room #2
- Overspray Removal Aarea
- Equipment Decon Room #1
- Lab
- Backend/Production Line

All SAA containers were 55-gallon, closed drums in good condition; labeled with the words "Hazardous Waste"; located at or near the point of generation; and inspected weekly.



Large Quantity Generator

SPECIAL NOTE: Unit Leader of the Compliance Enforcement Unit has authorized the facility to establish SAA containers located in the overspray removal area and the backend/production line area as roving satellites in order to accommodate the facility's unique need to move the SAAs up and down the line for the satellite storage of broken glass (D006).

90-day Accumulation Area

b) (7)(C), (b) (6) and (6), (7)(C), accompanied the inspectors to the following 90-day area:

- Equipment Decon Room #2
 - One cubic yard box of personal protective equipment (PPE) in the 90-day accumulation area was not labeled with the words "Hazardous Waste" and did not have an accumulation start date. Facility personnel corrected these deficiencies at the time of the inspection.

Tanks

At the time of the inspection the facility had one 500-gallon tank in the Mechanical Room. Another 2,000-gallon tank is planned for the near future. According to (b) (7)(C), (b) the 500-gallon tank was empty but is currently being used to store non-hazardous rinse water prior to shipping and disposing of the rinse water as hazardous waste. The tank was not labeled with the words "Hazardous Waste" and did not have an accumulation start date. Since the rinse water is being disposed of as hazardous waste until the facility installs their wastewater treatment unit, the inspectors advised that the facility either ship the rinse water as non-hazardous waste or, if they choose to continue to ship and dispose of the rinse waters as hazardous waste, then they should manage the tank as a hazardous waste tank, complying with the requirements of Subpart J.

Universal Waste

On the day of the inspection the facility was not yet generating universal waste.

Used Oil:

On the day of this inspection, the facility was generating used oil and storing the used oil in a container in the Mechanical Room. The container was not properly marked or labeled with the words "Used Oil." Facility personnel corrected this deficiency at the time of the inspection.

Hazardous waste treatment: On the day of this inspection, Abound Solar was not conducting generator treatment or land disposal restriction (LDR) treatment of hazardous waste. However (b) (7)(C), (b) stated that they plan to install a compaction unit for hazardous waste rags. The inspectors explained to (b) (7)(C), (b) that A generator performing on-site compaction (treatment) of its own waste shall be considered to have a state RCRA permit (Permit By Rule) if the following conditions are met:

- The rags are compacted in a container.
- The rags are being compacted (treated) to reduce their volume.
- The facility complies with the accumulation containers requirements.
- The facility develops and maintains onsite a written waste analysis plan (WAP).



Wastewater treatment unit/discharge permit: Abound Solar plans to operate a wastewater treatment unit prior to discharge to the POTW. The facility has not yet installed the unit.

DOCUMENT REVIEW

The following documents associated with the management of hazardous waste were reviewed at the time of this inspection:

- Training records for personnel involved with the management of hazardous waste.
 - The facility did not ensure a person trained in hazardous waste management was conducting the training. Both (b) (7)(C), (b) (6) and (b) (6) require additional hazardous waste training.
- The most current version of the Abound Solar contingency plan.
 - Although all the elements required in the contingency plan were eventually found, the required plan information was not readily or easily available. There were no issues identified in the review of this document. However, the inspectors strongly recommend utilizing the Department's contingency plan template or otherwise organizing the contingency plan.
- The 2009 Biennial Report. There were no issues identified in the review of this document.
- Land disposal restriction (LDR) notification forms.
 - There were no issues identified for enforcement action. However, the inspectors recommended the facility consider filing an LDR for each waste stream going to each treatment, storage and disposal facility (TSDF) to eliminate inconsistencies in LDR forms attached to each manifest.
- Hazardous waste manifests for January 2008 through present. There were no issues identified in the review of these documents.

COVERAGE AREAS

General Requirements (262.10 – 262.12). No violations were observed during this inspection.

Manifest Requirements (262.20 - 262.23). No violations were observed during this inspection.

Land Disposal Restriction Requirements (262.7(a)(2)). No violations were observed during this inspection.

Pre-Transport Requirements (262.30 - 262.34). The following pre-transport requirements were evaluated during this inspection:

• On-Site accumulation time limit (262.34(a)). No violations were observed during this inspection.



- Marking accumulation containers with the words "Hazardous Waste" (262.34(a)(3)).
 - One cubic yard box of PPE in the 90-day accumulation area was not labeled with the words "Hazardous Waste." Facility personnel corrected this deficiency at the time of the inspection.
- Marking accumulation containers with an accumulation start date (262.34(a)(2)).
 - One cubic yard box of PPE in the 90-day accumulation area did not have an accumulation start date. Facility personnel corrected this deficiency at the time of the inspection.
- <u>Management of 90-day accumulation containers (262.34(a)(1)(i) and 265.171 178).</u> No violations were observed during this inspection.
- <u>Management of satellite accumulation containers (262.34(c)(1)(i) and 265.171 178).</u> No violations were observed during this inspection.
- Contingency plan (262.34(a)(4) and 265.52). No violations were observed during this inspection.
- Training (262.34(a)(4) and 265.16).
 - The facility did not ensure a person trained in hazardous waste management was conducting the training. Both (b) (7)(C), (b) (6) and (b) (7)(C). require additional hazardous waste training.
- Preparedness and prevention (262.34(a)(4) and Part 265, Subpart C). No violations were observed during this inspection.

Subpart D, Recordkeeping and Reporting (262.40 – 262.44). No violations were observed during this inspection.

OTHER COVERAGE AREAS

Permit Requirements (Part 100). No violations were observed during this inspection.

Land Disposal Restrictions (Part 268). No violations were observed during this inspection.

Used Oil (Part 279).

On the day of this inspection, the facility was generating used oil and storing the used oil in a container in the Mechanical Room. The container was not properly marked or labeled with the words "Used Oil." Facility personnel corrected this deficiency at the time of the inspection.



COMPLIANCE ASSISTANCE/CLOSE-OUT MEETING

The inspectors conducted a closeout conference with facility personnel prior to leaving the facility. At the closeout meeting, the inspectors provided facility personnel with verbal information on the Colorado Hazardous Waste Regulations and a copy of the Division's *Guide to Generator Requirements of the Colorado Hazardous Waste Regulations* and several additional guidance documents.

The inspectors completed a Notice of Inspection (Attachment #1) and a Compliance Advisory (Attachment #2) that were signed by (b) (7)(C), (b) prior to leaving the facility. (b) (7)(C), (b) was provided with a copy of the documents.



ATTACHMENTS

- 1. Notice of Inspection
- 2. Compliance Advisory

Colorado La partment of Public Health and Lanvironment Hazardous Materials and Waste Management Division

4300 Cherry Creek Drive South, Mail Code: HMWMD-CP-B2, Denver, Co 80246-1530 (303) 692-3300

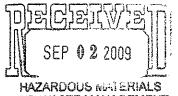
| Notic | e of Inspec | tion | |
|--|--|---|---|
| Facility Name Abound Sotar, Inc. | EPA I.D.# | 0R00022013 | 7 Date 3/2/15 |
| Street 9586 E. 1-25 Frontage K | l Y | anged Prior to Inspection | Hour In: |
| City County Zip | Enter By: | () NO | Hour Out: |
| Facility Representatives Titles | Cons | sent () Warrant Telephone # | 12:30 Agency: |
| (b) (7)(C), (b) (6) | monager | 303-682-6118 | () State () Oversight () Joint |
| CURRENT LQG, SQG, Exempt, Other | To Change Chater 1 | CT | |
| Comments: | | | |
| Compliance evalu | mplaint | inspection | and |
| compliance evalu | ation in | spaction u | 792 |
| conducted on 3/ | 2/10. | | |
| See Comp | oliance f | Advisory. | |
| Assistance Delivered During Inspection (for internal use - c. | | t | |
| Compliance Assistance: Generator Handbook Other guidance documents Change in generator status Generator Handbook Field Assistance Referral to another programment of the programment of | Pollution I Guidano | Prevention: Curr ce/Referral Pr ssistance D | ent Waste Minimization roduct Substitution distillation of solvents on site dementary Neutralization ther |
| Samples, Documents, Plans, and / or Photos Collected 1. Ophotos taken 2. Constant taken | 3. 4. | | |
| State personnel will review the facts established by this inspect State Regulations will be made as a result of this review. The | etion. A final determination review may reveal add | ation of your facility's compliar | nce with |
| Receipt of this Notice of Inspection Form is Acknowledged | 1 | ()(C), (b) (6) | |
| (7)(C), (b) (6) | Assisting Inspector(s (b) (7)(C), (t |) and Multimedia Participant(s) | |
| Signature of Facquy Representative | | | |

White copy to file. Pink copy to Tacking, Yellow copy to Facility

/ Facility Kepresentative

| FACILITY: | EPA ID#: COL | DATE: |
|--|---|------------------------------------|
| abound Solar Dri | 00 0220 134 | 3/a/10 |
| DEFICIENCIES | , POTENTIAL DEFICIENCIES OR CON | CERNS NOTED |
| 1) Ensure 90-day | storage area of | PPE is marked |
| with the wor | ds "Hazardous L | Naste! |
| 6 CCR 1007-3, | section 262.34(a)(| 3) |
| 2) Ensure an acc | cumulation start di | ate is clearly |
| Marked on t | he 90-day storag | e container of PRE |
| | Section 262.34C | · |
| 3) Ensure all | containers of us | edoil are marked |
| 1 | ords "Used Oil" | |
| 4) Ensure a pe | rson trained in haz | waste management |
| j ' | has waste trainin | 3 |
| | 3, sec 262.34(a) | |
| To Enguire person | hatel pref fraginge | Within Gemos |
| | desingles desigles | \ / \ |
| | & employed position | |
| I\' A | on filling position, | and whitten sibl |
| olescripting, e | docation and dutie | 7 2 2 2 2 2 |
| A PROSO HES | 3, Section 6 2651 | LOID (in Writing) |
| Se | e next page | www. |
| | | 3 1 27 1 0 |
| been advised to contact the above-listed | l "Potential Deficiencies" listed above hav Compliance Officer to close out this Com | pliance Advisory. I have also been |
| | y fashion to this Compliance Advisory wi ssessment of greater administrative and/or | |





9586 East I-25 Frontage Road Longmont, CO 80504 Phone: (303) 682-6100 Fax: (303) 682-6101

AND WASTE MANAGEMENT

April 31st, 2009

Attn:

Notification Coordinator

Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division 4300 Cherry Creek Drive South Denver, CO 80246-1530

RE: Annual Small Quantity Generator Self-Certification (EPA ID# - COR000220137)

In April of 2009, we changed our status from Small Quantity Generator Status to Large Quantity Generator Status. Due to this status change we are not completing the 2009 Annual Small Quantity Generator Self-Certification.

Please feel free to contact me if you should have any questions.



EHS Manager ABOUND SOLAR, INC.

(b) (7)(C), Governor (b) (7)(C), (b) Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado

http://www.cdphe.state.co.us

Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090



May 18, 2009

(b) (7)(C), (b) (6)

ABOUND SOLAR INC 4557 DENROSE CT UNIT B FT COLLINS CO 80524

RE: Notification of Hazardous Waste Activity

ABOUND SOLAR INC - EPA ID #: COR000220137

This letter will serve to inform you that the Hazardous Materials & Waste Management Division, Colorado Department of Health and Environment has received correspondence notifying us of the changes to your company/facility as indicated below. This is an acknowledgement letter only; keep it for your files. The areas listed below have changed per your request..

- > UPDATE GENERATOR STATUS TO: LARGE QUANTITY GENERATOR (LQG) FROM: SMALL QUANTITY GENERATOR (SQG)
- > UPDATE FACILITY NAME TO: ABOUND SOLAR INC
- ➤ UPDATE FACILITY CONTACT TO. (b) (7)(C), (b) (6)

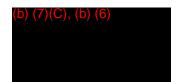
Any change in location would require a new Notification of Hazardous Waste Activity (EPA Form 8700-12) to be filed, as EPA ID numbers are location specific. Failure to have an EPA ID number for a new location or use of the wrong EPA ID number in shipping hazardous wastes may result in Enforcement Action under the Colorado Hazardous Waste Act (Sections 25-15-308 through 310, C.R.S.). In accordance with Part 99 of the Regulations, this office must be notified in writing at the above address if any of the following changes occur: 1) mailing address; 2) name of facility; 3) generator status or other notified activity; 4) contact name or phone number; 5) ownership; or 6) site is closed.

Please be aware that the handling and management of hazardous waste, including the generation, transportation, treatment, storage, and disposal of hazardous waste, is regulated under the Colorado Hazardous Waste Regulations (6 CCR 1007-3) Part 260 through 268; Part 2, 99 and 100. A copy of the *Guide to Generator Requirements of the Colorado Hazardous Waste Regulations* and copy of the regulations (6 CCR 1007-3) is available online at http://www.cdphe.state.co.us/regulations/hazwaste/index.html.

If you have any questions, or need further information, please contact me at

(b) (7)(C), (b) at(6)

Sincerely,



Hazardous Waste Notification Coordinator

MAIL FORM TO:

CDPHE HMWMD-B2 4300 Cherry Creek Dr. S.

Denver, CO 80246-1530

COLORADO HAZARDOUS WASTE **NOTIFICATION FORM**

Replaces EPA Form 8700-12, 8700-13A/B, and Page 1 of 8700-23

| Colorado Departme |
|-------------------|
| of Public Health |
| and Environment |

| 1. Reason for Submittal: (Mark 'X' in the appropriate boxes) | | | | | | | | |
|--|--|---|-------------------------------------|--|--|--|--|--|
| Initial notification | and obtain an EPA ID Number fo | r hazardous waste, universa | ıl waste, or useရာရှာပါ | l activities. | | | | |
| ➤ Subsequent notified | Subsequent notification to update information (Sec. 2-6 and 10 must be completed). | | | | | | | |
| | ardous Waste Part A Permit Appli | , • | | <i>'</i> | | | | |
| | tevised RCRA Hazardous Waste P | | |). | | | | |
| Component of a b | iennial Hazardous Waste Report a | nd a subsequent notification | 1. | | | | | |
| 2. Site EPA ID Number | CONOCAC | 00137 | | | | | | |
| 3. Site Legal Name/Operator: Abound Solar, Inc. | | | | | | | | |
| 4. Site Location Informa | ation: | County Name: Weld | - | | | | | |
| Street Address: 9586 | | | | | | | | |
| City or Town: Longm | ont | State: CO | Zip Code: 8050 | 1 | | | | |
| ····· · · · · · · · · · · · · · · · · | 🕇 Private 🛘 County 🔻 Distr | ict 🗆 Federal 🗅 India | an 🗆 Municipal | ☐ State ☐ Other | | | | |
| 6. North American Indu (NAICS) Code(s) for | stry Classification System the Site: | A. | В. | C. | | | | |
| 7. Site Mailing Address | Same as □ Location Street | Address: 4557 Denrose (| Court, Unit B | | | | | |
| City or Town: Fort Co | ollins | State: CO | Zip Code: 80524 | 1 | | | | |
| 8. Site Contact Person | First Name (b) (7) | MI: | Last Name: (b) (| 7)(C), | | | | |
| Job Title: CFO | | Phone Number: (b) (6), (b) | (7)(C) | xtension: | | | | |
| Address same as □Lo Street Address: | cation Mailing | | | | | | | |
| City or Town: | | State: Zip Code: | | | | | | |
| 9. Name of Site's Owner | : First Industrial Development S | ervices | Phone Number: | , | | | | |
| | ocation DMailing DContact s: 5350 S Roslyn No. 240 | | | | | | | |
| City or Town: Englew | ood | State: CO | Zip Code: 80111 | 1 | | | | |
| Owner Type: | Private 🗆 County 🗆 Distric | t 🗆 Federal 🗆 Indian | □ Municipal | ☐ State ☐ Other | | | | |
| 10. Type of Regulated W | aste Activity (Mark 'X' in the ap | propriate boxes for all act | tivities in Sections | 10A, 10B, and 10C). | | | | |
| A. Hazardous Waste Acti | vities For Items 2 through 7, chec | ck all that apply: | | | | | | |
| 1. Generator of Hazard | lous Waste (choose only one) | | | | | | | |
| | n 1,000 kg/mo (2,200 lbs.) of non- | 3. Hazardous Wast | | - | | | | |
| acute hazardous waste; of b. SOG: 100 to 1.00 | or 90 kg/mo (220 - 2,200 lbs.) of non- | 4. Treater, Storer, Note: A hazardous v | | zardous Waste aired for this activity. | | | | |
| acute hazardous waste; | or | 5. Recycler of Haza | | , | | | | |
| hazardous waste | in 100 kg/mo of non-acute | Note: A hazardous vactivity. | vaste permit may b | e required for this | | | | |
| Indicate other activitie | s (check all that apply) | 6. Exempt Boiler and | | | | | | |
| | orter of Hazardous Waste ardous and radioactive) Generator | | On-site Burner Exing, Refining Furn | | | | | |
| 2. Transporter of H | • | 7. Underground In | jection Control | | | | | |
| | | | | | | | | |

| B. Universal Waste Activities | | | | | | | |
|---|---|---|--|---|---|---|---------------------------|
| Large Quantity Handler of Universal Was site. (check all boxes that apply): | ste Indicate | types of un | iversal was | te generate | d and/or co | nsolidated: | at your |
| a. Batteries b. Pesticides c. Mercury-containing Devices d. Lamps e. Aerosol Cans f. Electronic Devices and/or Components g. Other (specify in comments) 2. Destination Facility for Universal Waste | Generate | Consolid | | other Univ | | | <u>s)</u> |
| C. Used Oil Activities (check all boxes that apply): | | | | | | | |
| 1. Used Oil Transporter 2. Used Oil Processor and/or Re-refiner 3. Off-Specification Used Oil Burner 4. Used Oil Fuel Marketer b. Marketer W | /ho Directs S | a. Transporta. Processor 5. Used Or Shipment of times the Use | il Collection | b. Re-ref Center Used Oil to | an Off-Spe | ec. Used Oi | l Burner |
| 11. Description of Hazardous Wastes List waste of the regulations (e.g., D001, D003, F007, U112). Ignitable (D001) Corrosive (D002) | Use an addi — | azardous wa tional page ive (D003) | if needed. | ed at your s | | | |
| D006 | | | | | | Į. | |
| 12. Comments | | | 0 | | | | |
| | | | | | | | |
| Transfer of Business Name from AVA Solar, Inc | c. to Abound | d Solar, Inc | | | | | |
| 13. Certification. I certify under penalty of law that supervision in accordance with a system designed to submitted. Based on my inquiry of the person(s) who information, the information is, to the best of my kno significant penalties for submitting false information, | assure that q manage the wledge and | ualified pers system, or t belief, true, a | sonnel prop hose person accurate, ar | erly gather as directly and complete | and evalua esponsible e. I am awa | te the infor for gathering that there | mation ng the e are |
| Signature of owner, operator, or an authorized representative | ne and Official Title (type or print) | | | Date S | Date Signed | | |
| b) (7)(C), (b) (6) (b) (1) | 7)(C), (b) (6 | CFO | | | 4//2 | 24/89 | 7 |



Stewart Environmental Consultants, Inc. consulting engineers and scientists

Corporate Office & Laboratory: 3801 Automation Way, Suite 200 Fort Collins, Colorado 80525 ph: (970) 226-5500 fax: (970) 226-4946 www.stewartenv.com

April 7, 2009

Notification Coordinator Colorado Department of Public Health and Environment HMWMD-B2 4300 Cherry Creek Drive South Denver, Colorado 80246-1530

Subject:

Colorado Hazardous Waste Notification Form - Abound Solar, Inc., Longmont

Facility

Project No.:

3973.011(2)

Dear Notification Coordinator:

This letter provides a summary and description of the activities requiring re-submittal of the Colorado Department of Public Health and Environment (CDPHE) Colorado Hazardous Waste Notification Form for Abound Solar, Inc. (formerly AVA Solar, Inc.) at 9586 I-25 Frontage Road in Longmont, Colorado.

AVA Solar has formally changed its business name to Abound Solar Inc. Stewart Environmental Consultants, Inc. has verified with Abound Solar that the production processes and waste generated as listed in the Initial CDPHE, Colorado Hazardous Waste Notification Form will not change.

The required sections of the CDPHE Colorado Hazardous Waste Notification Form are included with this document.

If you have any questions or require specific information, please contact Stewart Environmental.

Sincerely,

STEWART ENVIRONMENTAL CONSULTANTS, INC.

(b) (7)(C), (b) (6)

Environmental Health and Safety Manager

(b) (7)(C), (b) (6)

Environmental Services Manager

Enc.



C), (b) Governor Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado

http://www.cdphe.state.co.us

Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090



October 14, 2008



Ava Solar 4557 Denrose Ct Unit B Fort Collins CO 80524

RE: Notification of Hazardous Waste Activity EPA ID Number: COR000220137



The Hazardous Materials & Waste Management Division of the Colorado Department of Public Health and Environment, has received a Notification of Hazardous Waste Activity (EPA Form 8700-12) by your company for the following location:

> 9586 I-25 FRONTAGE RD **STE 200** LONGMONT CO 80501

In accordance with state regulations, the EPA ID number listed above has been assigned to the following above referenced location: (Future correspondence should include this number.)

SMALL QUANTITY GENERATOR

Any change in location would require a new Notification of Hazardous Waste Activity (EPA Form 8700-12) to be filed, as EPA ID numbers are location specific. Failure to have an EPA ID number for a new location or use of the wrong EPA ID number in shipping hazardous wastes may result in Enforcement Action under the Colorado Hazardous Waste Act (Sections 25-15-308 through 310, C.R.S.). In accordance with Part 99 of the Regulations, if any of the following changes occur, this office must be notified in writing at the above address: 1) mailing address; 2) name of facility; 3) generator status or other notified activity; 4) contact name or phone number; 5) ownership; or 6) site is closed.

Please be aware that the handling and management of hazardous waste, including the generation, transportation. treatment, storage, and disposal of hazardous waste, is regulated under the Colorado Hazardous Waste Regulations (6 CCR 1007-3) Part 260 through 268; Part 2, 99 and 100. A copy of the Guide to Generator Requirements of the Colorado Hazardous Waste Regulations and a copy of the regulations (6 CCR 1007-3) are available online at http://www.cdphe.state.co.us/regulations/hazwaste/index.html.

If you have any questions, or need further information, please contact me at (303) 692-3461.

Sincerely,



Hazardous Waste Notification Coordinator

MAIL FORM TO:

CDPHE

HMWMD-B2

4300 Cherry Creek Dr. S. Denver, CO 80246-1530

COLORADO HAZARDOUS WASTE

NOTIFICATION FORM

Replaces EPA Form 8700-12, 8700-13A/B, and Page 1 of \$100-23 UG 2 6 2018

UUO PIUU

| | | | | | | | |
|--|----------------------------|---|----------------------|--|--|--|--|
| 1. Reason for Submittal: (Mark 'X' in the appropriate boxes) HAZARDOUS MATERIALS Initial notification and obtain an EPA ID Number for hazardous waste, universal Waste Management of the submitted by the subm | | | | | | | |
| Subsequent notification to update information (Sec. 2) | | | | | | | |
| Initial RCRA Hazardous Waste Part A Permit Applic | | | ed). | | | | |
| Component of a Revised RCRA Hazardous Waste Pa | | | | | | | |
| Component of a biennial Hazardous Waste Report ar | • • | | <i>J</i> . | | | | |
| | | ** | | | | | |
| 2. Site EPA ID Number: COROO2 | 20137 | | | | | | |
| 3. Site Legal Name/Operator: AVA SOLAR | | 100 111 001 1 | | | | | |
| 4. Site Location Information: | County Name: WELD | | | | | | |
| Street Address: 9586 1-25 FRONTAGE ROAD #2 | 00 | V | | | | | |
| City or Town: LONGMONT | State: CO | Zip Code: 80501 | | | | | |
| 5. Site Land Type: 🛎 Private 🗆 County 🗆 Distri | ict 🗆 Federal 🗅 Indi | an 🗆 Municipal | ☐ State ☐ Other | | | | |
| North American Industry Classification System (NAICS) Code(s) for the Site: | A. 334413 | В. | C. | | | | |
| 7. Site Mailing Address Same as 🗷 Location Street. | Address: | | | | | | |
| City or Town: | State: | Zip Code: | | | | | |
| 8. Site Contact Person First Nam (b) (7)(C), (b) | MI: | Last Nam(b) (7)(C) | , (b) | | | | |
| Job Title: VP OF MANUFACTURING | Phone Number: (b) (7)(C |), (b) (6) Exte | ension: 168 | | | | |
| Address same as ଧLocation □Mailing Street Address: | | | | | | | |
| City or Town: | State: Zip Code: | | | | | | |
| 9. Name of Site's Owner: FIRST INDUSTRIAL | | Phone Number: (72 | 0)528-7215 | | | | |
| Address same as □Location □Mailing □Contact Owners Street Address: 5350 S. ROSLYN STREET, S | UITE 240 | | | | | | |
| City or Town; GREENWOOD VILLAGE | State: | Zip Code: 80111 | | | | | |
| Owner Type: 🗵 Private 🗆 County 🗆 Distric | et 🗆 Federal 🗆 Indian | n 🗆 Municipal 🗅 | State 🗆 Other | | | | |
| 10. Type of Regulated Waste Activity (Mark 'X' in the ap | propriate boxes for all ac | tivities in Sections 10 | A, 10B, and 10C). | | | | |
| A. Hazardous Waste Activities For Items 2 through 7, chec | k all that apply: | | | | | | |
| 1. Generator of Hazardous Waste (choose only one) | | | | | | | |
| a. LQG: Greater than 1,000 kg/mo (2,200 lbs.) of non- | 3. Hazardous Was | _ | | | | | |
| acute hazardous waste; or 4. Treater, Storer, or Disposer of Hazardous Waste | | | | | | | |
| ★ b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs.) of non- Note: A hazardous waste permit is required for this activity. | | | | | | | |
| acute hazardous waste; or C.CESQG: Less than 100 kg/mo of non-acute hazardous waste Note: A hazardous waste permit may be required for this activity. | | | | | | | |
| Indicate other activities (check all that apply) | 6. Exempt Boiler and | or Industrial Furna | ce | | | | |
| d. United States Importer of Hazardous Waste | a. Small Quantity | On-site Burner Exenting, Refining Furnace | nption | | | | |
| e. Mixed Waste (hazardous and radioactive) Generator | 7. Underground In | jection Control | | | | | |
| 2. Transporter of Hazardous Waste | | - | | | | | |

| HAZARDO | US WASTE S | SITE IDENTI | IFICA'. | FORM | Page | 2 | | Ł ID No. | | | |
|---|--|--|--|---------------------------------------|--|---|--|--|--|---|---------------------------|
| B. Univer | sal Waste | Activities | | | ······································ | | | | | | · |
| | arge Quant te. (check | | | | te Indicate | types of uni | iversal was | e generated | d and/or co | onsolidated a | at your |
| a. B. b. P. c. M d. L e. A f. E g. O C. Used O 1. Use 2. Use 3. Off | atteries esticides Iercury-con amps erosol Can dectronic E other (speci- estination l oll Activitie ed Oil Tran ed Oil Proc f-Specificat ed Oil Fuel | ntaining Do s Devices and fy in comm Facility for es (check al nsporter cessor and/ | evices I/or Complents) Universal I boxes that or Re-refi Dil Burner | onents I Waste at apply): ner | lo Directs S | a. Transport a. Processor b. Used Of | aste permit ter [- [il Collectio Off-Spec. I | may be req] b. Trans:] b. Re-ref n Center Jsed Oil to | uired for t fer Facility iner an Off-Sp | | |
| the re | | e.g., D001, I | Wastes Lis | st waste co 7, U112). | ho First Cla des of the haddi Use an addi React | azardous wa | istes handle | ed at your s | ite. List ir | order prese | |
| D006 | F003 | | | | | | <u> </u> | | - | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 12. Comm | ients | | | | | | | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | - |
| | | | • | | , , , , , , , , , | | | | | ······································ | |
| | | | | | | | | | | | |
| | | | | | | ······································ | | | | | |
| supervisio submitted. informatio | n in accord Based on r on, the infor | ance with a ny inquiry mation is, t | system desof the person the best of | signed to a on(s) who of my kno | this documents assure that quantum manage the wledge and the including the | ualified pers system, or to belief, true, | sonnel prop hose person accurate, an | erly gather as directly and complete | and evalu responsible e. I am aw | ate the infor e for gatheri are that ther | mation ng the e are |
| Signature (7)(C), (b | of owner, | operator, o | r an | Nam | e and Offici | al Title (ty | pe or print |) | Date | Signed | |
| , (1)(O), (D | / (0) | | | | | | | | 8 | -08-0 | |

| Revised | 10/2007 |
|---------|---------|